Claims of PCT/EP98/07570 by Agfa (Juergen Mueller, Herbert Gebele, Thomas Zehetmaier, Ralph Thoma):

## Claim 1

Apparatus for row-wise reading of information stored on a phosphor plate with a radiation source used to send a first radiation with which the phosphor can been excited such that it sends out a second radiation which contains an at least partial image of the stored information, and a receiving device for point wise reception of the second radiation, CHARACTERIZED BY a receiving device consisting of a plurality of point elements PD1...PDN, such that the radiation from the phosphor plate can be received at the same time by these point elements.

#### Claim 2

Claim 1 such that the radiation source is configured such that multiple points of the phosphor, in particular all points of a row can be excited at the same time.

#### Claim 3

Receiving device is a CCD array.

# Claim 4

Radiation source configured such that it can create multiple beams (S0...S9).

#### Claim 5

Using laser diodes as radiation source.

## Claim 6

The number of laser diodes equals the number CCD pixels.

#### Claim 7

Using a halogen lamp and light guide for illumination.

#### Claim 8

Fanning out of beams out of beams S0...S9.

## Claim 9

Like claim 8, focusing on a single row.

#### Claim 10

Radiation source configured as a "wire lamp".

#### Claim 11

Between phosphor and CCD is an imaging system that images point-to-point referred to as "Selfoc" lens

# Claim 12

Same apparatus on both sides of plate.

## Claim 13

Pixels are wider (80u) than they are high (20u); this claims suggests to integrate four subsequent rows to create 80x80 pixels.

# Claim 14

Everything integrated into a cassette.

# Claim 15

Dual phosphor plate - materials have different characteristics (probably for tissues vs. bone imaging).

# Claim 16

Using an "electrical linear motor" to move the assembly over the plate.

# Claim 17

Adding an erasing device to the cassette.

# Claim 18

Using the linear motor to move the erasing device over the plate.